City of Alexandria, Virginia

MEMORANDUM

DATE:

SEPTEMBER 30, 2003

TO:

THE HONORABLE MAYOR AND MEMBERS OF CITY COUNCIL

THROUGH: PHILIP SUNDERLAND, CITY MANAGER

FROM:

GARY A. MESARIS, FIRE CHIEF

SUBJECT:

LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) OVERVIEW

At the September 23, 2003 City Council Legislative Meeting, Councilman Rob Krupicka reported that he and the other members of the Local Emergency Planning Committee (LEPC) had recently been provided an update and overview of the LEPC and emergency management in the City of Alexandria. Mr. Krupicka requested that all members of City Council be provided a copy of the information presented.

Attached are copies of the presentation provided to the LEPC. Please let me know if additional information is desired or if I can be of further assistance.

Attachment: (10) Alexandria LEPC Overview

cc: Michele Evans, Assistant City Manager





Alexandria LEPC -An Overview Local Emergency Planning Committee

Brian Ekeland September 26, 2003





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Overview

- Mission and Scope
- Definition of Hazardous Materials
- Assumptions
- Who is the LEPC
- Alexandria demographics and hazard zones
- Management Control
- Role of Fire and Police
 Departments
- Notification and Evacuation
- IEMS Integrated Emergency Management System







Mission and Scope of the LEPC

Mission

which will minimize the adverse effects on life, property and the environment in the event of a capabilities and procedures, and to be prepared to conduct coordinated emergency operations hazardous materials incident in Alexandria." "It is the mission of the city government to comply with SARA Title III, and to develop plans

Scope -What's included:

- city government The plan applies to departments/activities of the city government, other persons under the emergency control of city officials, and to facilities subject to the provisions of SARA, Title III.
- Links to other city plans The plan is closely related to the other city emergency operations plans. It is linked to fire and police procedures that cover responses to chemical spills and other types of HAZMAT releases.

Scope - What's not included:

City department continuity plans
- Emergency response plans for

individual city departments

- Plans for natural disasters floods, hurricanes, tornadoes, blizzards.
- **Attacks** Hacker/Denial of Service attack.
- **Epidemic Response** SARS, smallpox, flu, etc. managed by the Public Health Dept.



Hazardous Materials Defined

- **Hazardous Material -** A hazardous material is a material, including chemicals or biological agents, capable of producing harmful physical or health effects.
- Physical Effects Fire, sudden release of pressure, explosion and other violent reaction.
- Health Effects Acute conditions, burns, rashes, respiratory distress, convulsions, and possibly death. Chronic conditions develop after long term exposure to hazardous materials and include; cancers, nervous system disorders, and damage to other organ systems.
- Source NOAA National Oceanic and Aeronautic Association







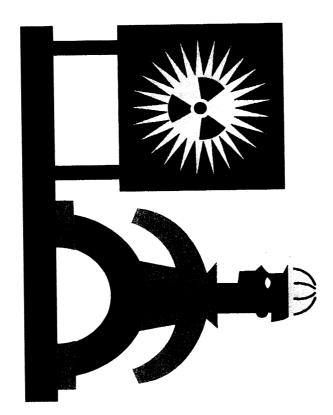
Examples of Hazardous Materials

Any hazardous material manufactured in the U.S. could be transported through Alexandria. Examples include:

- Combustible liquids or solids any liquid having a flashpoint > 100 degrees Fahrenheit and < 200 degrees. Ex - alcohols, antifreeze, fluid cleaners, acids.
- Compressed gases a substance in gas or liquid form and aerosol cans. contained in a vessel under pressure, including cylinders
- damage a variety of human organ systems, **Carcinogens** speed the development of tumors, **Mutagens** chemicals that affect the human reproductive system. Designated chemicals — Toxic chemical agents —
- agents as well as syringes, needles and sharps. veterinary wastes which contain human disease-causing Etiologic (disease causing agents) — any lab and
- **Explosives** any chemical compound, mixture or device that reacts or decomposes with substantial instantaneous release of gas and heat when subjected to sudden shock, pressure or high temperature. Ex ammunition, dynamite, blasting caps, fireworks, propellants.
- ammonia, acetone **Flammable liquids or solids –** any liquid exhibiting a flash point < 100 degrees Fahrenheit. Ex – gasoline, kerosene, petroleum products, propane solvents,
- ammonia, alkaline dusts, halogens, hydrogen chloride, nitrogen dioxide, acetic acid, and formaldehyde. **Irritants** – materials that cause inflammation of the body surface with which they come in contact, or changes in the mechanics or respiration and lung functions. Ex -
- oxygen or other electron acceptor to stimulate the combustion of organic matter (fuel). Oxidizing Materials — a substance that readily yields
- Poisons a substance so toxic that it presents a risk to life or health.
- Radioactive materials any material having a specific activity greater than .002 microcuries per gram (uCi/g). Ex - uranium, nuclear waste.



Source — NOAA — National Oceanic and Aeronautic Association and DOT hazard classifications.







Members of the LEPC:

NUMBER OF MEMBERS 10

TERM 2 YEAR TERM

COMMENTS

- 2 Elected state and local officials
- 2 Representatives from law enforcement and firefighting personnel
- 2 Representatives of broadcast and print media
- 2 Representatives of community groups
- 2 Owners and operators of facilities subject to of Super Fund Amendments and Reauthorization Act of 1986 (SARA) the federal emergency planning requirements

CITY STAFF CONTACT

CHARLES MCRORIE

Emergency Management Coordinator

FIRE DEPARTMENT (703) 838-3825

Committee Members

- MARION BRUNKEN PETER CRAWFORD Citizen Police Captain
- **Energy Plant** BRYAN DONNELLY Covanta - Waste

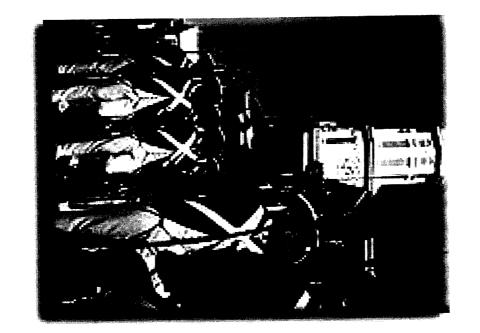
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- **HULA EDMONDS BRIAN EKELAND**
- 765 _UDWIG GAINES
- KAREN HELBRECHT ALAN HASKEL
- ROB KRUPICKA
- **GARY MESARIS**
- Mirant
- Communications City Council
- Communications Citizen
- City Council Fire Chief



Alexandria City Demographics

- •Residential Population 128,283
- •Households 61,889
- •2003 Operating Budget \$454M
- Value of Real Property \$16 Billion
- •Economy Consists of distribution, retail, hotel, restaurants, service and professional, office-type enterprises. Light industry includes: repair shops, printing, packaging and transportation. No heavy industry.
- Terrain Varies from sea level to 284 feet above sea level, covering approximately 16 square miles.
- Water City water is supplied from a single utility from closed storage.
- Public Transportation Metro and DASH.
- •Power Dominion Power
- Climate There are no unusual weather or climate factors to report that would affect airborne distribution of chemicals.







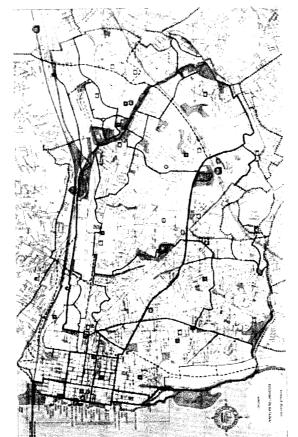
Alexandria Potential Hazard Zones

accidents that could rupture containers and emit gasses, liquids or particles by: The city is vulnerable to transportation

- **Highways** Alexandria is on U.S. Route 1, a major north-south transportation artery, as well as Route 495 the Capital Beltway, and Route 395.
- hazardous materials Railroad tracks — trains carry
- **Jet fuel pipeline** Runs along railroad tracks from Newington to Reagan Airport.

Seaport on the Potomac River – hazardous materials can enter the city via the river.

Flight path to Reagan Airport – the city lies adjacent to and along the flight path for both takeoff and landing.





Plan Assumptions

- Hazmat Event Hazardous Materials emergency may occur at any time and without warning along any transportation route; air, water, highway or railway, within the city.
- Fire and Explosion Fire and explosion may result as well as emission of gases, liquids or particles.
- City Services will respond to Hazmat events - City emergency services will respond promptly and deal effectively with a hazardous material incident.
- Mutual agreements are in effect— adjacent jurisdictions of Arlington and Fairfax will provide Alexandria with assistance if required.
- **State and Federal Assistance** Requires a longer response time and would be more helpful in a long range situation.
- **Emergency plans are linked** The city's emergency operation plans and procedures will be implemented in the event of a disaster.
- SARA Superfund Amendments and Reauthorization Act. The plan complies with the requirements of Title III, Emergency Planning and Community Right-to-Know, Public Law 99-499, October 17, 1986, Superfund Amendments and Reauthorization Act of 1986 (SARA.)







Management Control during an Emergency

- Fire Chief Gary Mesaris, the Fire Chief has operational control of the incident. Those units responding under a mutual aid agreement come under his command.
- Visiting ranking fire or EMS officer –
 Provides personnel and equipment support to the host jurisdiction.
- City Manager The City manager is the director of emergency management and is responsible to the City Council for all emergency preparedness activities.
- Community Emergency Coordinator

 Charlie McCrorie reports to the Fire
 Chief.
- Incident Manager Normally the Fire Chief, this is the "on scene" commander.
- Emergency Operations Center —
- Fire EMS Training Academy Lee Center
- Alternate Fire HQ Building at 900 2nd St.

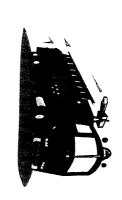






Organizations that respond during an Emergency

- **Fire Department** Fire suppression, explosion, hazardous materials and rescue, triage, care and transport for the injured.
- Hazardous Materials Emergency Response Team Specially trained and equipped __ Departments serving under written agreement with the Virginia Department of Emergency Management. personnel of the Alexandria and Arlington Fire
- Available 24 hours a day, with a 4 minute local response, and 30 minute regional response time from point of notification.
- Team manages an area within 75 miles of \lexandria.
- security of the area, evacuation from the scene of the incident, traffic and crowd control, and accident investigation. Police Department – Law enforcement,
- **Transportation and Environmental Services** Heavy equipment use, ditching, diking, debris removal and air monitoring. **Health Department** – Operating Casey Clinic, sanitary inspections, liaison with CDC, state
- Assistance as needed from: health commissioner, and medical examiner.
- **Volunteer agencies** Red Cross
- Other jurisdictions Arlington and Fairfax Level 1 Strategic Control

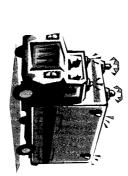
















Role of the Fire and Police Departments during an Emergency

Fire Department

HAZMAT procedures - Implement internal HAZMAT procedures

Assume Control - Assume primary operational control for an emergency incident: fire, explosion, hazardous materials.

Work with Police - Support police units during evacuation

Dispatch Vehicle - Dispatch a vehicle to the on scene command post and coordinate with the Emergency Operations Center.

Decontaminate - Decontaminate exposed persons

Monitor plume - Monitor the plume to determine its speed, direction and concentration.

Provide service for the rest of the city - Continue fire suppression, rescue and ambulance service for the remainder of the city.

Provide Education - Educate public and coordinate HAZMAT training.

Refer inquiries – Refer inquiries from the public to the Emergency Operations Center.

Police Department

HAZMAT procedures - Implement internal HAZMAT procedures

Assume Control - Assume primary operational control for an emergency incident for evacuation, security, traffic and crowd control, prevention of looting and re-occupancy.

Evacuation - Coordinate with Red Cross, Schools, Recreation and Fire Dept.

Evacuation Transportation – Call for DASH buses, school buses, Human Services STU (Special Transportation Unit) buses, Fast Tran (Fairfax City,) Metro buses

Terrorist activities – Coordinate investigations with

Stray animals – Coordinate pick up and care of strays or pets of evacuees.

Provide law enforcement service for the rest of the city - Continue law enforcement for the remainder of the city.

Provide Education - Educate public and coordinate HAZMAT training.

Refer inquiries – Refer inquiries from the public to the Emergency Operations Center.





Notification and Warning System

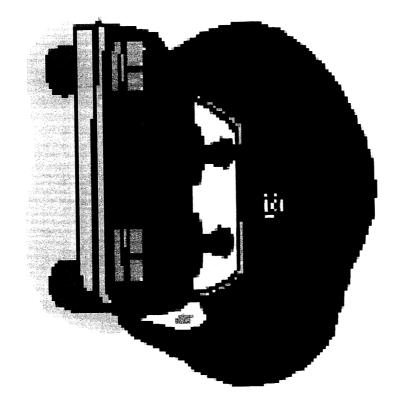
- Fire and Police Communications Both the Fire and Police Departments have their own communications centers and are connected to the 911 system. They are the primary source for notification of a hazardous release from a facility or along a transportation route. They have internal paging systems to notify their personnel of a hazmat situation.
- EAS Emergency Alert System The City Manager and certain staff are authorized to use the EAS to warn and notify the public. EAS uses the NOAA weather radio, commercial radio, network and cable television to relay information as a two minute sound-bite or written scroll.
- Siren Warning System This was dismantled in 1991.
- Telephone Emergency Notification Used when up to 10,000 calls are required.
- Emergency Public Information Public Information Officer will deal with the press and speak for the city manager.





Evacuation

- Evacuation The police will be in charge of alerting the population to evacuate. Police will drive cruisers through the streets with lights flashing and provide directions over the public address speakers and bull horns. Police will go door-to-door where necessary.
- Evacuation vs. In-place
 Protection The Incident
 Commander makes a decision
 regarding evacuation. Police and
 Fire personnel follow their internal
 procedures for evacuation.







Emergency Task Assignments

- Adjacent Jurisdiction
- **Chemical Facilities**
- City Council
- City Manager
- Assistant City Manager
- 9 9 Citizen Assistance
- City Attorney
- Information Technology Services
- Emergency Management Coordinator
- Finance Department
- 11.10 Fire Department
 - General Services
 - Health Department
- Housing
- **Human Services**
- Hospital

- 17. LEPC
- Management and Budget
- Mental Health
- 20. Personnel Services
- Planning and Zoning
- . Police Department
- 23. Radio Amateur Civil Emergency Services (RACES)
- Real Estate Assessment
- 25. Recreation, Parks and Cultural Activities
- . American Red Cross
- Alexandria City Schools
- Sheriff's Office
- Transportation and Environmental Services
- 30. Utilities Electricity, Gas, Water and Telephone
- Virginia Emergency Response Council (VERC)

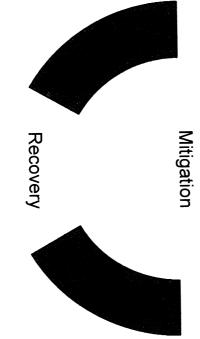




IEMS - Integrated Emergency Management System

- Mitigation Activities designed to avoid or prevent emergencies from occurring, and to reduce ill effects of those that are unavoidable.
- Preparedness The city is prepared to respond to emergencies through substantial planning and training efforts. Preparedness includes adequate supplies, equipment, facilities and dedicated personnel.
- Response Time and speed are essential to response. Arrive at scene quickly and take decisive action to reduce the severity of the incident. Actions may include warning, evacuation, suppression, containment, rescue, apprehension, treatment, and in extreme cases, withdrawal for safety reasons.
- Recovery Return to normal state of being. The city will give priority to recovery operations, including assessment of damage, restoration of essential facilities and utilities, provision for public and individual welfare, and return to normal community activities.







IEMS — Mitigation (Prevention)

Avoid or prevent emergencies from occurring, and reduce the ill effects of those that are unavoidable.

- •Alexandria Fire Prevention Code enforce the code to prevent fires.
- Building Codes ensure codes are followed for construction and renovations.
- Flood Plain Management National Flood Insurance Program
- •Hazardous Chemical Removal remove hazardous chemicals or recommend changing the type of chemical used.







IEMS – Preparedness (Planning)

Preparedness involves planning for emergencies.

- **LEPC** The Local Emergency Planning Committee meets to evaluate the emergency plan.
- Plan No 71 The Emergency
 Coordinator has created an Emergency
 Plan for the City of Alexandria.
- Training –
- Fire and Police Departments Offer both internal employee training and public outreach programs.
- Red Cross Disaster Education to volunteers and the public.
- **Exercises** Drills ensure city employees are prepared.
- **Biohazard Training** 2003 winter drill at the Court House for a biohazard spill.
- **Alexandria Hospital** 2002 summer drill for emergency preparedness.





IEMS - Response

Time and speed are essential elements of response.

- Fire Assumes primary operational control for an emergency incident: fire, explosion, hazardous materials.
- Fire EMS The Emergency
 Medical Services team responds in
 concert with the Fire Dept.
- Police Assume primary operational control for an emergency incident for: evacuation, security, traffic and crowd control, prevention of looting and reoccupancy.
- Emergency Operations Center (EOC) The EOC is staffed 24 x 7 with employees who are trained to respond and manage hazardous events.

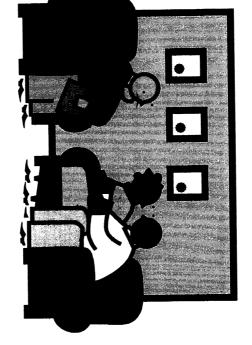




IEMS - Recovery

Return citizens, property and environment to a normal state.

- Physical Ensure citizens physical health and housing are adequate.
- Mental Assess mental health of disaster victims accordingly, and provide counseling as required.
- Economic Determine if disaster victims require economic aid.





Summary

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- Definitions of Hazardous Materials
- Planning Assumptions
- Members of the LEPC
- Alexandria demographics and hazard zones
- Management Control
- Role of Fire and Police
 Departments
- Notification and Evacuation
- IEMS Integrated Emergency Management System

